

THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:-

1. A fault current limiter for limiting current faults in an electrical network comprising:
a series of phase coils located adjacent a superconductive coil for fault current
5 limiting phase faults within said network;
a series of neutral coils located adjacent said superconductive coil for fault current limiting neutral earthing faults in said electrical network.
2. A fault current limiter as claimed in claim 1 wherein said neutral coils are formed around a high permeability core.
- 10 3. A fault current limiter as claimed in claim 1 wherein said superconductive coil encompasses a central core formed from a high permeability material.
4. A fault current limiter as claimed in claim 3 wherein said phase coils and said neutral coils are magnetically coupled to said central core.
5. A method of current limiting earthing faults in an electrical network the method
15 comprising the steps of:
utilising a fault current limiter between the electrical network and ground.
7. A method of current limiting faults in a multi-phase electrical network, the method comprising the steps of:
(a) coupling a superconductive phase fault current limiter between each phase of
20 the interconnection of each phase of the electrical network and a transformer;
(b) coupling a superconductive neutral fault current limiter between the neutral of said transformer and the neutral of said network.
8. A method as claimed in claim 7 wherein said superconductive phase fault current limiters and said superconductive neutral fault current limiter share the same cryostat.

9. A method as claimed in claim 7 or 8 wherein said superconductive phase fault current limiters and said superconductive neutral fault current limiter share the same superconductive coil.
10. A fault current limiter for limiting current faults in an electrical network
- 5 comprising:
- a series of phase coils located adjacent a superconductive coil for fault current limiting phase faults within said network;
- a series of neutral coils located adjacent said superconductive coil for fault current limiting neutral earthing faults in said electrical network.
- 10 11. An earth fault current limiter substantially as hereinbefore described with reference to Fig. 5